

ABSTRACT OF THE DISCLOSURE  
A HARDWARE/SOFTWARE BASED INDIRECT TIME STAMPING  
METHODOLOGY FOR PROACTIVE HARDWARE/SOFTWARE EVENT  
DETECTION AND CONTROL

5           An improved method and apparatus for time stamping events occurring on a  
large scale distributed network uses a local counter associated with each processor of  
the distributed network. Each counter resets at the same time globally so that all  
events are recorded with respect to a particular time. The counter is stopped when a  
critical event is detected. The events are masked or filtered in an online or offline  
10 fashion to eliminate non-critical events from triggering a collection by the system  
monitor or service/host processor. The masking can be done dynamically through the  
use of an event history logger. The central system may poll the remote processor  
periodically to receive the accurate counter value from the local counter and device  
control register. Remedial action can be taken when conditional probability  
15 calculations performed on the historical information indicate that a critical event is  
about to occur.

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